

2814

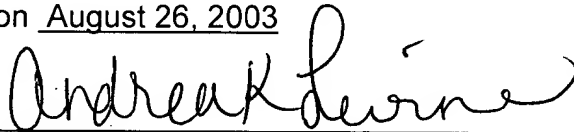
ATTORNEY DOCKET NO: AMKOR-052A
TITLE: LEADFRAME AND SEMICONDUCTOR PACKAGE WITH IMPROVED
SOLDER JOINT STRENGTH

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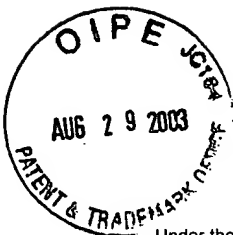
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/687,048
Filing Date	10/13/2000
First Named Inventor	Tae Heon Lee et al.
Group Art Unit	2814
Examiner Name	Dilinh P. Nguyen
Attorney Docket Number	AMKOR-052A

Total Number of Pages in This Submission

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- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment / Reply
- ☐ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Assignment Papers (for an Application)
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- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
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- ☐ After Allowance Communication to Group
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Remarks

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STETINA BRUNDA GARRED & BRUCKER

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Application No.: 09/687,048
Response to Office Action of: 08/12/2003
Attorney Docket: AMKOR-052A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Tae Heon Lee et al.)	Confirmation No. 1120
)	
Serial No.:	09/687,048)	Art Unit: 2814
)	
Filed:	10/13/2000)	Examiner: Nguyen, Dilinh P.
)	
For:	Leadframe And Semiconductor)	
	Package With Improved Solder)	
	Joint Strength)	

INTERVIEW SUMMARY RECORD

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam:

Applicant hereby presents a written summary of the telephone interview conducted between the Examiner and Applicant's counsel on July 8, 2003. During this telephone interview, the applicability of the teachings of the Okumura et al. reference to the pending claims of the present application were discussed between the Examiner and Applicant's counsel. More particularly, Applicant's counsel explained that those embodiments of the semiconductor device described in the Okumura et al. reference which appear to depict leads of differing lengths are the fifth embodiment shown in Figures 5(a) and 5(b), and the sixth embodiment shown in Figures 6(a) and 6(b). Applicant also explained that the semiconductor device of the fifth embodiment includes leads 13, with each lead 13 being described in the specification of the Okumura et al. reference as including a stepped portion 22 formed by removing an inner bottom portion thereof to provide enhanced adhesion between the lead 13 and the sealing resin 15. In this regard, Applicant argued that the specification of the Okumura et al. reference and the showings in Figures 5(a) and 5(b) thereof clearly demonstrate that the bottom surfaces of the leads 13 which are actually exposed in the sealing resin 15 are of identical lengths. Along these lines, Applicant further explained that though the half-etched

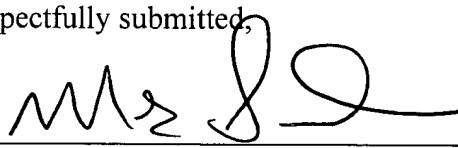
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portions of the leads 13 which extend inwardly from the stepped portions 22 are of differing lengths, these half-etched portions are completely covered by the sealing resin 15, and are not exposed therein. Applicant indicated that the exposure in the sealing resin 15 of only the identically sized bottom surfaces of the leads 13 as shown in Figure 5(a) and apparent from Figure 5(b) also holds true in relation to the sixth embodiment of the semiconductor device shown in Figures 6(a) and 6(b) of the Okumura et al. reference.

During the telephone interview, Applicant also contrasted the teachings of the Okumura et al. reference to pending independent Claims 16, 25 and 31. More particularly, Applicant explained that the leads are specifically described in each of these independent claims as being configured such that the bottom surfaces thereof which are exposed in the encapsulation material are of at least two different lengths. At the end of the interview and in response to the Examiner's request, Applicant agreed to attempt to make some amendments to the pending independent claims solely for the purpose of stating even more clearly that the bottom surfaces of the leads which are exposed in the encapsulation material are of at least two different lengths.

Respectfully submitted,

Date: 8/26/03

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